## eHealth Initiative Annual Conference





# **Shared Health Value Story**Transforming Care

### Agenda



### The purpose of this presentation is to illustrate how Shared Health has utilized health information exchange (HIE) to transform healthcare

- Shared Health Origins
- Improvements in Healthcare
- Outcome Metrics
- Stakeholder Involvement
- Leadership and Commitment
- Leadership Involvement
- Commitment to Sharing Best Practices
- Questions

### **Shared Health Origins**



### Need for TennCare (State Medicaid Agency) to lower cost and improve the quality of care in Tennessee

- Visibility into patients record across providers was essential
- Cost Savings identified five areas:
  - Medications
  - Wellness
  - Clinical Waste
  - Fraud and Abuse
  - □ Better Care & Oversight

### Tennessee Governor's call for a solution

#### **Shared Health created**

- > Electronic Health Record (EHR) that spans provider networks
- Designed for multi payer/multi provider model
- Facilitate the coordination of care among all stakeholders including RHIO's

### **Clarifying Shared Health**



### **Mission**

To improve the quality, safety, and efficiency of health care by connecting clinicians, consumers, and health coaches through a secure information exchange

### **Vision**

To be a trusted health information integrator and exchange

#### Market Position:

We facilitate the sharing of administrative data with core clinical data to support informed decision-making, leading to improved health care outcomes.

# Challenge Shared Health is Addressing



#### Issues

- > The high cost of healthcare
- The lack of access to complete medical history and patient data
- Impacting quality of care where it's needed; at the point of care

### **Focusing on Cost Savings in Five Areas**

- Medications
- Wellness
- Clinical Waste
- Fraud and Abuse
- Better Care & Oversight

### **Healthcare Improvement Goals**



Shared Health's goals for its initiative are to improve the quality, safety, and efficiency of health care by connecting clinicians, consumers, and authorized stakeholders through a secure information exchange.

# How Health Information Exchange (HIE) is Helping Achieve our Goals



### **Solution-based Approach**

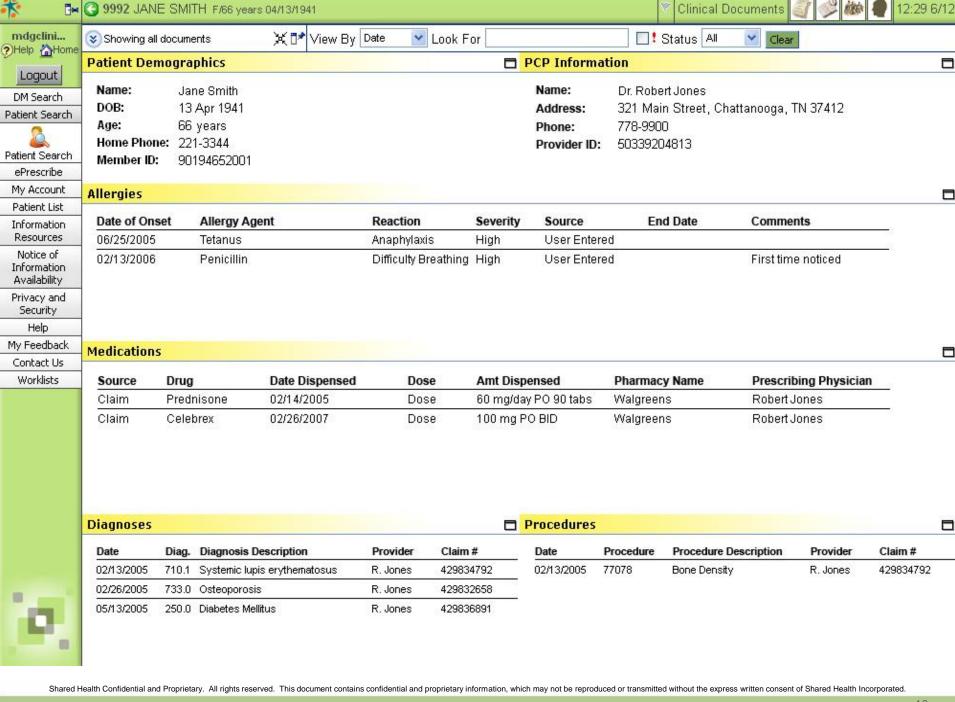
- Continuum-based Clinical Health Record (CHR)
  - □ Shared Health Clinical Health Record™
  - □ Shared Health ePrescribe®
  - □ Shared Health's CHR™ My SharedHealth™
  - EPSDT Tracking
- Clinical Outreach Program
- In-depth Communications

### **Continuum-based CHR**



#### Clinical Health Record

- Demographic Data across all providers and payers
- Claims Encounter Data across all providers and payers
- Prescription Drug History regardless of location of fulfillment
- Laboratory Orders and Results across all providers
- Immunizations for central location for the state
- Prescribe solution applies across the entire customer base
- EPSDT Well-child Online Exams
- Allergies and Vitals any authorized physician can view
- Secure messaging

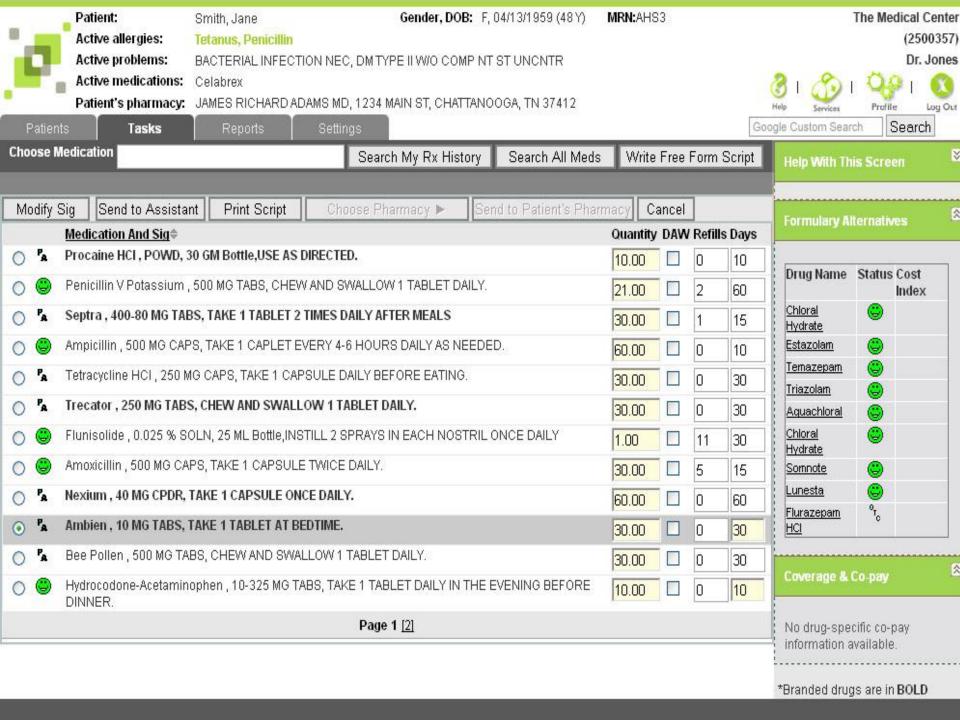


### **Continuum-based CHR**



#### **ePrescribe**

- Formularies pre-loaded for cost effective care
- Alerts for drug-drug, drug-allergy, and drug-food interactions (reducing errors)
- No handwriting to decipher (reducing errors)
- Prescriptions can be electronically sent to pharmacies
- Queries multiple sources of medication history to assemble the most complete medication history possible
- Checks for patient-specific formularies

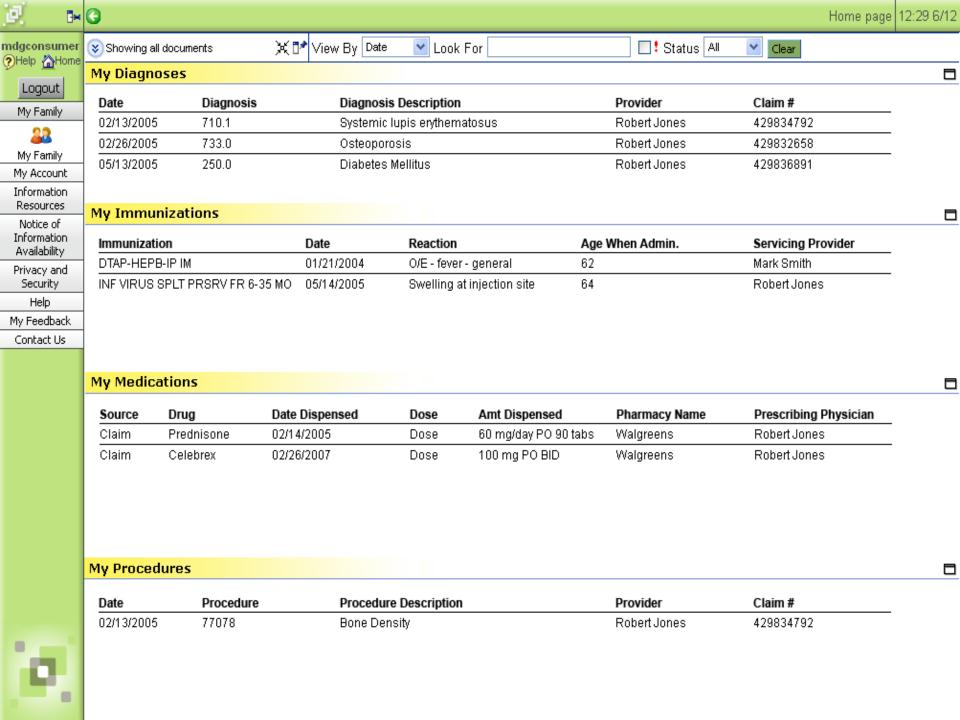


### Continuum-based CHR



### Shared Health's CHR™ - My SharedHealth™

- Portal allows registered consumers to view the same information their clinicians are accessing within the CHR
- Personal health record can operate as a stand-alone solution or can be integrated into existing payer portals and/or personal health record systems
- Alerts for drug-drug, drug-allergy, and drug-food interactions (reducing errors)



### **EPSDT Compliance Guidelines**



#### **Shared Health's EPSDT screens:**

- Provide for consistency in compliance with federal and state mandated requirements
- Require fields must be completed before the physician can sign off on the screen
- Include an Initial Assessment form to capture the Comprehensive Health and Developmental History
- Establish a template for well child exams for all children regardless of payer
- Provide reminders that exams are due to insure compliance with periodicity schedules

### **Initial Assessment**



	IV.	ledical History	
lospitalization O No Treatment* O Yes	Comments	Surgeries* ( No C Yes	Comments
njuries / O No Accidents* O Yes	Comments	Significant © No Illnesses* © Yes	Comments
iamily (*) No listory of congenital (*) Yes lefects*	Comments	Hereditary ( No disorders or risk ( Yes conditions*	Comments
Sexually (C No Active (C Yes	If yes, Method Oral contraceptive pills of Contraception:  Diaphrams Condoms Progesterone ring Withdrawal Other	Sexually () No Transmitted Diseases () Yes	If yes,
		Child has had	
Chicken Pox	Date	☐ Mumps	Date
☐ Measles	Date	<b>□</b> тв	Date

### **Solution-based Approach**



### **Clinical Outreach Program**

- Clinician adoption of Health Information Technology (HIT) critical for benefits to be realized
- Hands on Program designed to help physicians incorporate the HIE into their existing workflow
- Outreach members work with provider practices and hospitals one on one to understand how to incorporate the system into their workflow

### **In-depth Communications Program**

Open and consistent communications regarding
□ Security
□ Privacy
□ Benefits
□ Opt-out process
<ul> <li>User access of Shared Health</li> </ul>

- All participants and clinicians participating in the program have targeted communications programs designed to inform and educate them on the program benefits and details
- Sponsors and Shared Health coordinate efforts according to a focused strategy to inform beneficiaries, providers, and all other stakeholders

### **Regional Map Reference**



### Shared Health - Clinical Outreach Regions



Region	Region Name
Region 1	Johnson City
Region 2	Knoxville
Region 3	Chattanooga
Region 4	Nashville
Region 5	Jackson
Region 6	Memphis



### Four Primary Elements were used to Assess effectiveness

- Clinical Adoption
- Episode Efficiency
- Clinical Resource Utilization
- Provider Satisfaction

### Metrics used to Assess Effectiveness



### **Clinical Adoption**

- One of the most important drivers behind the success of an HIE program is provider use
- Provider use is the only methodology to providing higher quality more efficient healthcare
- Focused effort by Clinical Outreach Team identifies potential high utilization providers and works with those providers to incorporate Shared Health into their daily workflow
- Shared Health focuses on the following metrics to measure provider adoption
  - □ Unique patient lookups
  - ☐ Monthly CHR user statistics
  - □ Completed EPSDT (well child care) forms

### **Initiative Outcomes**



### **Clinical Adoption**

- Presently adoption is at 13.1%
- Utilization to date is greater than 10,000 unique patient lookups a month from approximately 950 providers
- Unique patient searches increased at a rate of approximately 10% per month
- Scripts written per month 1650
- EPSDT Analysis shows Shared Health users provided 11% more EPSDT services to eligible members
  - □ Improvement from 73% penetration to 81% penetration
  - Evidence that use of Shared Health increases the likelihood of appropriate follow-through of EPSDT services

### **Metrics used to Assess Effectiveness**



### **Episode Efficiency**

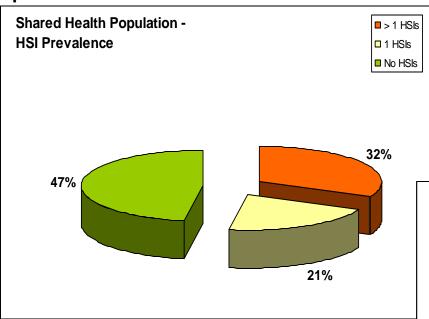
- Evaluate impact by using Episode Treatment Groupers (ETGs); aggregate like episodes of care into homogeneous groupings of similar conditions
- ETG methodology validated nationally is effective in studying comparative care efficiency and cost
- ETG efficiency value 1.0 represents a case where the actual episode cost was equal to expected cost
- An efficiency value 2.0 represents a case where the cost is twice what was expected
- Focused on 102 practices (Super Adopters\*) meeting a criteria of accessing enrollees in the CHR at least four times per month during six months or more in 2006
- 102 practices accessed 12,477 unique patients who accounted for 7,292 discrete ETGs or episodes of care attributed to those practices
- Attribute an episode of care to a physician practice when it accounts for ≥ 60 percent of each episode's E&M codes. (Please note that ETGs are attributed to clinician practices; not hospitals.)

<sup>\*</sup>Super Adopters are entities using the system 4 or more times a month over an extended period of time.

# HSI Report: Looked-up Patients are "Sicker"

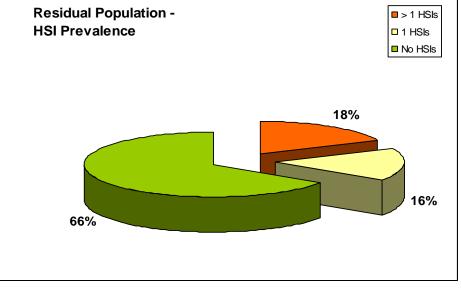


### Prevalence of Health Status Indicators (HSI) in the population.



### **Health Status Indicators (HSI)**

 HSIs capture key chronic clinical conditions and disease states that drive utilization and cost. HSI >1 indicates a sicker patient.



Source: MCSource 5.3

Period: January 2006 thru March

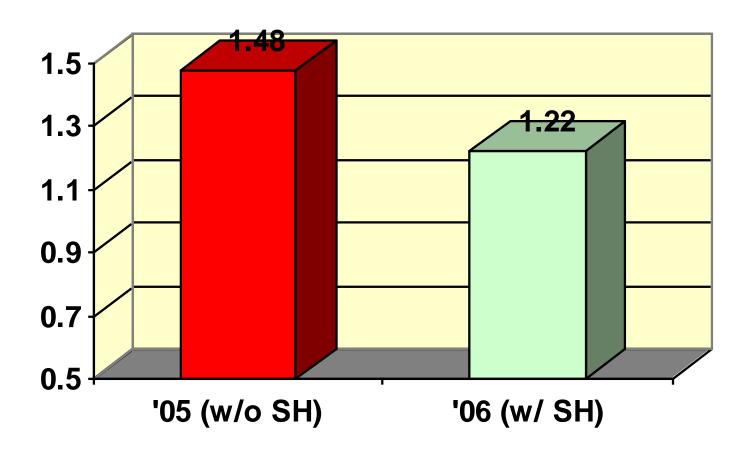
2006

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### Efficiency Gain: Frequent Users, Same SharedHealth **Patients and Same Conditions**

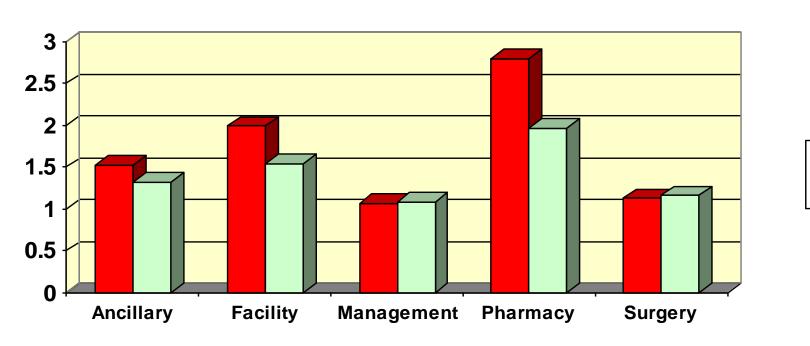


### **ETG Efficiency (Lower is Better)**





### **Efficiency Gains by Category**

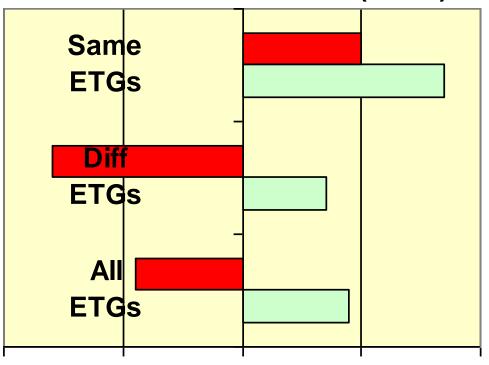




# A Head Start: Helping Clinicians to Get Better Faster



# SH Efficiency Change Impact: Same vs. Different Conditions (ETGs)



-20.00% -10.00% 0.00% 10.00% 20.00%

□ '06 (w/ CHR) ■ '05 (w/o CHR)

### **Initiative Outcomes (cont.)**



### **Efficiency**

- EPSDT 11% improvement from 73% penetration to 81% penetration
- Emergency Department (ED)
  - □ 30% fewer services per visit
  - □ 15% fewer patients admitted to hospital
  - □ 21% lower cost/visit
  - □ 21% efficiency improvement in ETGs containing a Shared health ED encounter
- Pharmacy eRX
  - □ 9% shift toward generics
  - □ 10% decline in brand
  - Pre-authorized (PA) drugs were 11 percentage points less
  - 9 percentage point improvement in covered
  - □ Total \$9.00 less per script
- Primary Care Physician (PCP) Services
  - □ 5% improvement in ETG service efficiency
  - Overall 21% improvement when scripts included

### Metrics used to Access Effectiveness



#### **Clinical Resource Utilization**

- Shared Health is pursuing ongoing case studies to evaluate the impact of the CHR on several aspects of resource utilization
  - ePrescribing
  - □ ED Visits
- Prescribing metrics looked at
  - □ Formulary Compliance
  - Generic Use
  - □ Costs per Prescription
- > Analysts focused on several emergency departments and primary care sites
  - Measures examined were:
    - Cost per Visit
    - Admissions
    - Services Utilized
- This is an ongoing study and preliminary findings are presented

### **Metrics used to Access Effectiveness**



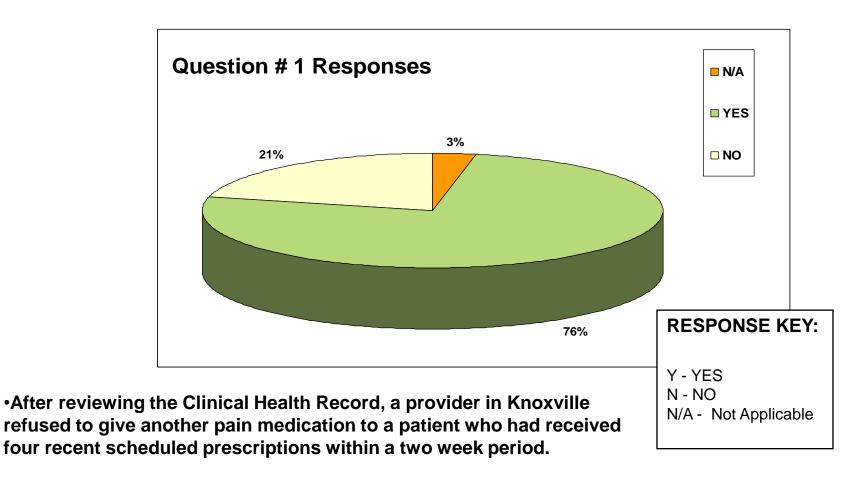
### **Provider Satisfaction**

- Measured by formal evaluation questionnaires distributed to providers utilizing Shared Health services
- Small number of questions used to achieve high volume of feedback
- Questionnaires focused on providers' overall satisfaction to specific utilization experiences with specific modules
- The initial survey asked the following questions/statement:
  - As a result of using the Shared Health Clinical Health Record, did you modify or eliminate a prescription
  - □ Did the Shared Health CHR assist you with providing high quality, cost effective care
  - My practice has successfully integrated the Shared Health CHR solution into our normal office workflow

### **Provider Survey**



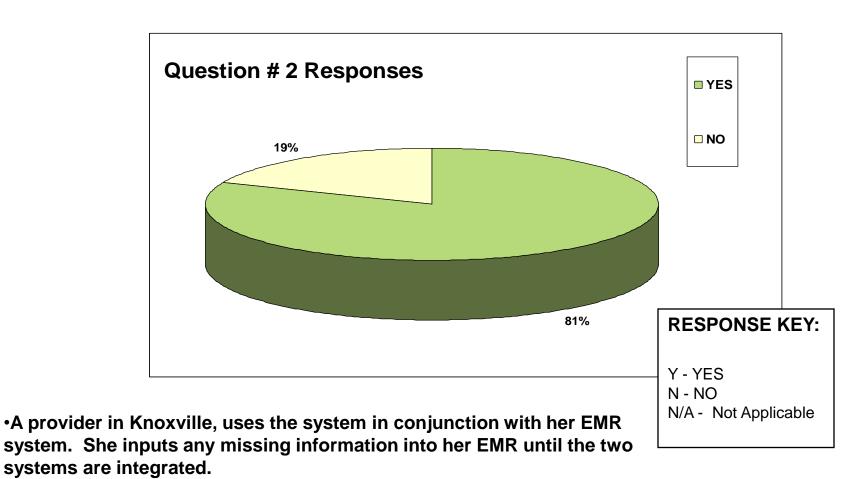
Question # 1 – As a result of using the Shared Health Clinical Health Record, did you modify or eliminate a prescription?



### **Provider Survey**



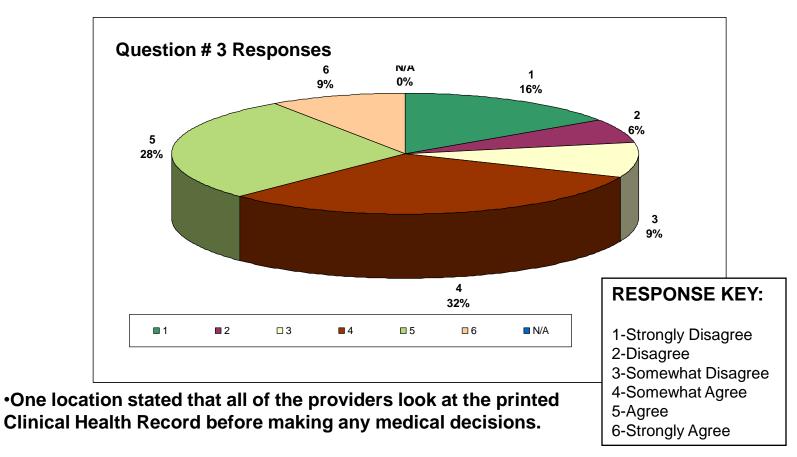
Question # 2 – Did the Shared Health Clinical Health Record assist you with providing high quality, cost effective care?



### **Provider Survey**



Question # 3 – The information I retrieve from the Shared Health Clinical Health Record is useful and helps clinicians make more informed treatment decisions.



### **Leadership & Commitment**



### **Stakeholder Programs**

Shared Health has worked with many stakeholder groups over the last three years. Our experience has been that Leadership takes responsibility and accountability for each stakeholder through the following functional areas

- Clinical Outreach
- Technology
- Public Policy
- Privacy & Security

### Stakeholder Involvement after two years Shared Heal



Early on in the process stakeholders from around the state were involved in many aspects of the program. They provided valuable feedback to the design and development process of the program. Two years into the program their roles have evolved. Select stakeholders include

### **State Medicaid Program**

- To date the State's Medicaid program has been the single largest participant in the Shared Health program
  - ☐ They provide critical mass and a source of funding
  - □ They provide data that pre-populates the Shared Health CHR

### **Primary Care Physicians**

 Primary source of feedback and input; contribute and utilize data via EPSDT, ePrescribing, Vitals, lab results, & claims submissions

### **Healthcare IT suppliers**

Shared Health contracts with a variety of Health IT suppliers in order to create the HIE service. Shared health works with these suppliers in order to help define, construct, and maintain the HIE

### Stakeholder Involvement after two years Shared Heal



### **Pharmacy Benefit Management Companies**

- Provide claimed medications on behalf of individual patients
- Provide drug formulary information at the POC where formularies aren't available via RxHub

### **Independent Laboratories**

- Source of clinical data specific to individual participants
- Lab results have proven to be a very beneficial data point for providers at the point of care

### **Hospitals**

- Core user group of the Shared Health CHR
- Early on provided programmatic input into the needs and requirements their facilities had for the CHR
- Today Shared Health provides summary level information that assists the ER in assessing a patient's medical history.
- Hospitals are also utilizing the Shared Health CHR to assist in complying with medication reconciliation requirements.

### **Leadership & Commitment**



### Stimulating innovation, building knowledge and capabilities, and ensuring a sustainable initiative

	Heavy Leadership involvement in direct provider interaction via state and nationwide conferences and councils including, but not limited to:
	□ eHealth Initiative
	□ AHIC
	□ AQA
	<ul> <li>National Governor's Association Health Committee</li> </ul>
	□ AHIP
	□ HIMSS
	□ State Medical and Hospital Associations
	□ CCHIT EMR Interoperability Committee
	□ Governor Bredesen's ePrescribing Task Force
	<ul> <li>State of Tennessee's eHealth Advisory Council</li> </ul>
>	Shared Health was chosen to conduct pilot efforts with AHIP (PHR Portability Pilot) and CMS (PHR Feasibility Study)
>	Continuous participation in groups and interaction with thought leaders from state RHIO's, Public Advisors, and industry sponsored events.

# Advancing Healthcare in the U.S. Model for Value-driven Healthcare



### **Key Shared Health Advancements:**

- Shared Health has experience in both public / private health IT initiatives and already represents the largest public/private HIE in the country, with approximately 1.8 million commercial and government-insured patients enrolled in the system
- Shared Health has a proven methodology to drive provider adoption
- Provides a valuable tool to treat patients with chronic conditions
- Developed comprehensive policies and procedures to protect patient health information at all points during health information exchange
- Through a statewide HIE, Shared Health is making a material impact on the cost and quality of care as evidenced by initial value findings.



### Questions



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